

1/15

GC527

FIG.-1B - 1

1	5			3			4			RBS			-107		
	↓			↓			↓			Met			GTG		
99	Arg	Gly	Lys	Lys	Val	Val	Trp	Trp	Trp	Ala	Ala	Ala	Ala	Ala	Ala
174	Ser	Ala	Gln	Ala	Ala	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln
249	Ser	Ala	Gln	Ala	Ala	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln
324	Ala	Gln	Ala	Ala	Ala	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln
399	His	Val	Ala	Ala	Ala	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln
474	Gly	Tyr	Tac	Act	Gga	Tca	Aat	Gtt	Gaa	Gaa	Gaa	Gaa	Gaa	Gaa	Gaa

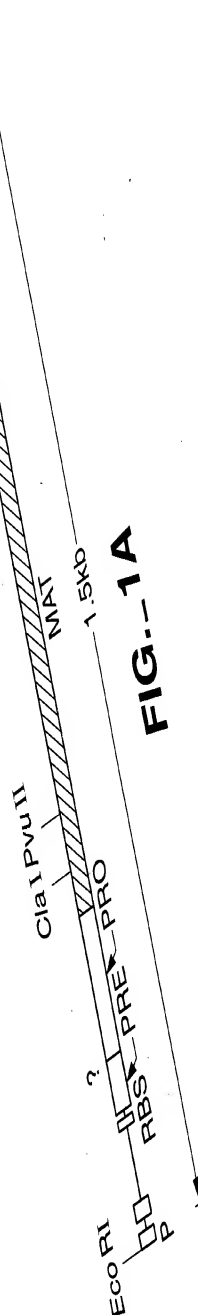


FIG.-1A

**Mutant Proteins Having Lower Allergenic  
Response in Humans & Methods for  
Constructing, Identifying & Producing Such  
Proteins**  
Estell et al.  
SN# 09/062,872<sub>f</sub>

APPROVED	C.O. FIG.
BY	CLASS
SUBCLASS	
DRAFTSMAN	

FIG. 1B-2

FIG.-1B-2

GC527

Mutant Proteins Having Lower Allergenic  
Response in Humans & Methods for  
Constructing, Identifying & Producing Such  
Proteins  
Estell et al.  
SN# 09/062,872

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APPROVED	FIG. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

Asn

Ile

Leu

Gly

GGA

AAA

TAT

TAC

TTC

TCT

GAT

GGT

CTT

AAA

ACA

ACT

ACC

AAC

GAA

TTA

GAA

AGT

AGC

CGC

GTC

CAA

Gln

Val

Gly

GGA

AAA

TAT

TAC

TTC

TCT

GAT

GGT

CTT

AAA

ACA

ACT

ACC

AAC

GAA

TTA

GAA

AGT

AGC

CGC

GTC

CAA

Gln

Val

Gln

Val

Gln

Gly

GGA

AAA

TAT

TAC

TTC

TCT

GAT

GGT

CTT

AAA

ACA

ACT

ACC

AAC

GAA

TTA

GAA

AGT

AGC

CGC

GTC

CAA

Gln

Val

Gln

Val

Gln

Gly

GGA

AAA

TAT

TAC

TTC

TCT

GAT

GGT

CTT

AAA

ACA

ACT

ACC

AAC

GAA

TTA

GAA

AGT

AGC

CGC

GTC

CAA

Gln

Val

Gln

Val

Gln

Gly

GGA

AAA

TAT

TAC

TTC

TCT

GAT

GGT

CTT

AAA

ACA

ACT

ACC

AAC

GAA

TTA

GAA

AGT

AGC

CGC

GTC

CAA

Gln

Val

Gln

Val

Gln

Gly

GGA

AAA

TAT

TAC

TTC

TCT

GAT

GGT

CTT

AAA

ACA

ACT

ACC

AAC

GAA

TTA

GAA

AGT

AGC

CGC

GTC

CAA

Gln

Val

Gln

Val

Gln

Gly

GGA

AAA

TAT

TAC

TTC

TCT

GAT

GGT

CTT

AAA

ACA

ACT

ACC

AAC

GAA

TTA

GAA

AGT

AGC

CGC

GTC

CAA

Gln

Val

Gln

Val

Gln

Gly

GGA

AAA

TAT

TAC

TTC

TCT

GAT

GGT

CTT

AAA

ACA

ACT

ACC

AAC

GAA

TTA

GAA

AGT

AGC

CGC

GTC

CAA

Gln

Val

Gln

Val

Gln

Gly

GGA

AAA

TAT

TAC

TTC

TCT

GAT

GGT

CTT

AAA

ACA

ACT

ACC

AAC

GAA

TTA

GAA

AGT

AGC

CGC

GTC

CAA

Gln

Val

Gln

Val

Gln

Gly

GGA

AAA

TAT

TAC

TTC

TCT

GAT

GGT

CTT

AAA

ACA

ACT

ACC

AAC

GAA

TTA

GAA

AGT

AGC

CGC

GTC

CAA

Gln

Val

Gln

Val

Gln

Gly

GGA

AAA

TAT

TAC

TTC

TCT

GAT

GGT

CTT

AAA

ACA

ACT

ACC

AAC

GAA

TTA

GAA

AGT

AGC

CGC

GTC

CAA

Gln

Val

Gln

Val

Gln

Gly

GGA

AAA

TAT

TAC

TTC

TCT

GAT

GGT

CTT

AAA

ACA

ACT

ACC

AAC

GAA

TTA

GAA

AGT

AGC

CGC

GTC

CAA

Gln

Val

Gln

Val

Gln

Gly

GGA

AAA

TAT

TAC

TTC

TCT

GAT

GGT

CTT

AAA

ACA

ACT

ACC

AAC

GAA

TTA

GAA

AGT

AGC

CGC

GTC

CAA

Gln

Val

Gln

Val

Gln

Gly

GGA

AAA

TAT

TAC

TTC

TCT

GAT

GGT

CTT

AAA

ACA

ACT

ACC

AAC

GAA

TTA

GAA

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CONSERVED RESIDUES IN SUBTILISINS FROM  
*BACILLUS AMYLOLIQUEFACIENS*

APPROVED	BY	DRAFTSMAN	FIG.	SUBCLASS
			CLASS	

```

1           10           20
A Q S V P . G . . . . . A P A . H . . G

21          30          40
. T G S . V K V A V . D . G . . . . H P

41          50          60
D L . . . G G A S . V P . . . . . Q D

61          70          80
. N . H G T H V A G T . A A L N N S I G

81          90          100
V L G V A P S A . L Y A V K V L G A . G

101         110         120
S G . . S . L . . G . E W A . N . . . .

121         130         140
V . N . S L G . P S . S . . . . . A . .

141         150         160
. . . . . G V . V V A A . G N . G . . .

161         170         180
. . . . . Y P . . Y . . . . A V G A .

181         190         200
D . . N . . A S F S . . G . . L D . . A

201         210         220
P G V . . Q S T . P G . . Y . . . N G T

221         230         240
S M A . P H V A G A A A L . . . K . . .

241         250         260
W . . . Q . R . . L . N T . . . L G . .

261         270
. . Y G . G L . N . . A A . .

```

**FIG.\_2**

# FIG.-3A

## COMPARISON OF SUBTILISIN SEQUENCES FROM:

*B.amyloliquefaciens*

*B.subtilis*

*B.licheniformis*

*B.lentus*

01	A Q S V P Y G V S Q I K A P A L H S Q G Y T G S N V K V A V I D S G I D S S H P	30
	A Q S V P Y G I S Q I K A P A L H S Q G Y T G S N V K V A V I D S G I D S S H P	
	A Q T V P Y G I P L I K A D K V Q A Q G F K G A N V K V A V L D T G I Q A S H P	
	A Q S V P W G I S R V Q A P A A H N R G L T G S G V K V A V L D T G I S T * H P	
41	D L K V A G G A S M V P S E T N P P Q D N N S H G T H V A G T V A A L N N S I G	70
	D L N V R G G A S F V P S E T N P P Y Q D D G S S H G T H V A G T V A A L N N S I G	
	D L N V V G G A S F V P A G E A Y N * T D G N G H G T H V A G T V A A L N N S I G	
	D L N I R G G A S F V P G E * P S T Q D D G N G H G T H V A G T V A A L N N S I G	
81	V L G V A P S A S L Y A V K V L G A D G S G Q Y S W I I N G I E W A I A N N M D	110
	V L G V S P S A S L Y A V K V L D S T G S G Q Y S W I I N G I E W A I S N N M D	
	V L G V A P S V S L Y A V K V L N S S G S G Q Y S W I I N G I E W A T N N G M D	
	V L G V A P S A E L Y A V K V L G A S G S G Q Y S W I I N G I E W A G N N G M H	
121	V I N M S L G G P S G S A A L K A A V D K A V A S G V V V A A A G N E G T S S G	150
	V I N M S L G G P T G S T A L K T V V D K A V S S G I V V A A A A G N E G S S G	
	V I N M S L G G A S G S T A M K Q A V D N A Y A R G V V V A A A A G N S G N S G	
	V A N L S L G S P S A T L E Q A V N S A T S R G V L V V A A A A G N S G A G S	

APPROVED	FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

161 S S S T V G Y P G K Y P S V I A V G A V D S S N Q R A S F S S V G P E L D V M A  
 S S S T V G Y P A K Y P S S T I A V G A V D S S N Q R A S F S S A G S E L D V M A  
 S T N T I G Y P A K Y P S S V I A V G A V D S S N Q R A S F S S V G A E L E V M A  
 \* \* \* I S Y P A R Y A N A M A V G A T D D Q N N R R A S F S S Q Y G A G L D I V A

230 P G V S I Q S T L P G N K Y G A Y N G T S M A S P H V A G A A A L I L S K H P N  
 P G V S I Q S T L P G N K Y G A Y N G T S M A S P H V A G A A A L I L S K H P T  
 P G A G V Y S T Y P G S T Y A S L N G T S M A S P H V A G A A A L I L S K H P N  
 P G V N V Q S T Y P G S T Y A S L N G T S M A S P H V A G A A A L I L S K N P S

241 W T N T Q Q V R S S L E N T T K L G D S F Y Y G K G L I N V Q A A A Q  
 W T N A Q Q V R R D R L E S T T A T Y L G N S F Y Y G K G L I N V Q A A A Q  
 L S A S Q Q V R R N R L S S T A T Y L G S S F Y Y G K G L I N V E A A A Q  
 W S N V Q I R R N H L K N T A T S L G S T N L Y G S G L V N A E A A T

FIG.\_3B

FIG.\_3A

FIG.\_3

APPROVED	FIG. 4	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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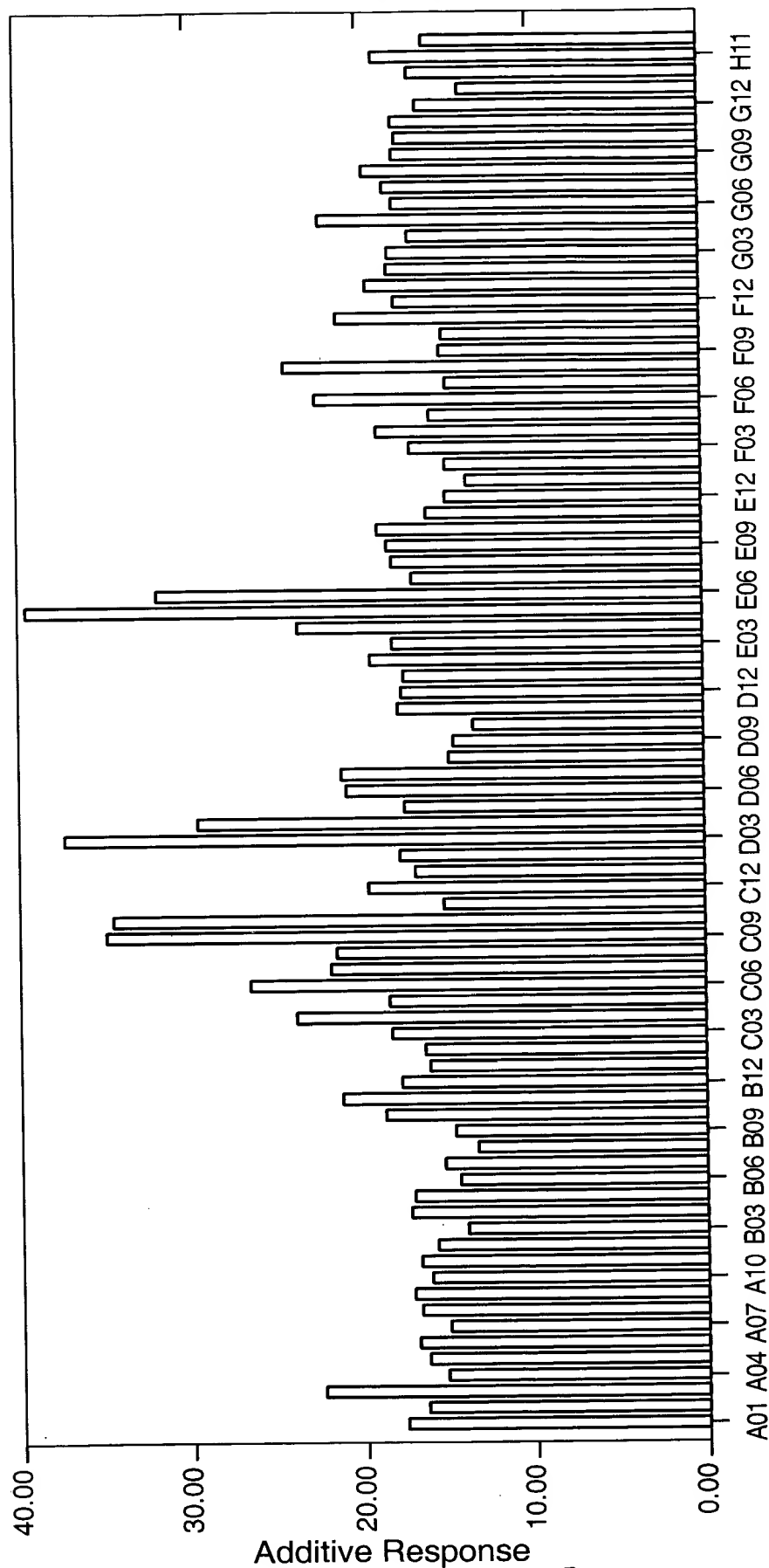
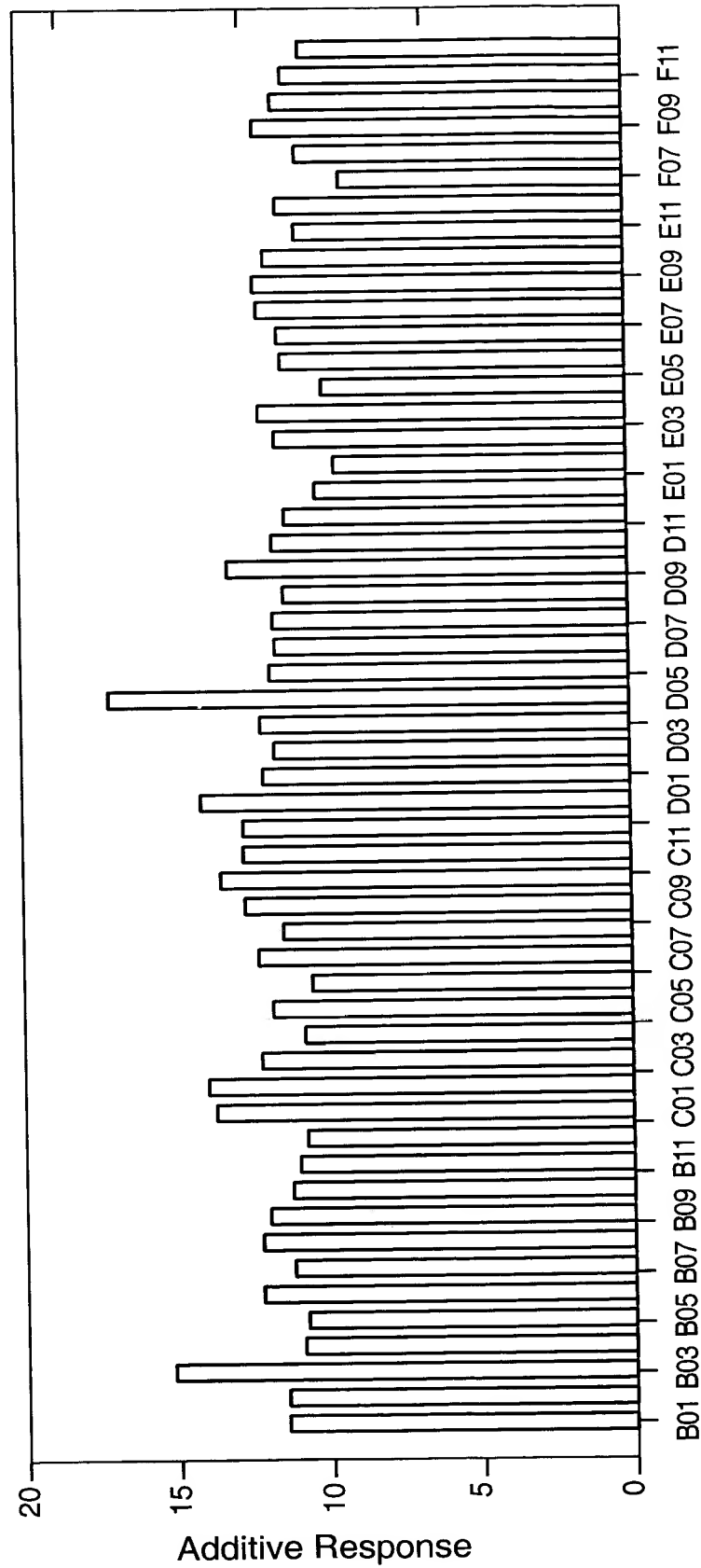


FIG. 4



**FIG.\_5**

APPROVED	FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS



1	A12	IKDFHVFRESRDAG	49	E12	SATSRGVLVVAASGN
2	A11	LEQAVNSATSRGVLV	50	E11	SRGVLVVAASGNSGA
3	A10	AQSVPWGISRVQAPA	51	E10	VLVVAASGNSGAGSI
4	A9	VPWGISRVQAPAAHN	52	E9	VAASGNSGAGSISYP
5	A8	GISRVQAPAAHNRGL	53	E8	SGNSGAGSISYPARY
6	A7	RVQAPAAHNRGLTGS	54	E7	SGAGSISYPARYANA
7	A6	APAAHNRGLTGSGVK	55	E6	GSISYPARYANAMAV
8	A5	AHNRGLTGSGVKVAV	56	E5	SYPARYANAMAVGAT
9	A4	RGLTGSGVKVAVLDT	57	E4	ARYANAMAVGATDQN
10	A3	TGSGVKVAVLDTGIS	58	E3	ANAMAVGATDQNNNR
11	A2	GVKVAVLDTGISTHP	59	E2	MAVGATDQNNNRASF
12	A1	VAVLDTGISTHPDLN	60	E1	GATDQNNNRASFQY
13	B12	LDTGISTHPDLNIRG	61	F12	DQNNNRASFQYGAG
14	B11	GISTHPDLNIRGGAS	62	F11	NNRASFSQYGAGLDI
15	B10	THPDLNIRGGASFVP	63	F10	ASFQYGAGLDIVAP
16	B9	DLNIRGGASFVPGEF	64	F9	SQYGAGLDIVAPGVN
17	B8	IRGGASFVPGEFSTQ	65	F8	GAGLDIVAPGVNVQS
18	B7	GASFVPGEFSTQDGN	66	F7	LDIVAPGVNVQSTYP
19	B6	FVPGEFSTQDGNHGH	67	F6	VAPGVNVQSTYPGST
20	B5	GEPSTQDGNHGHVAGT	68	F5	GVNVQSTYPGSTYAS
21	B4	STQDGNHGHVAGTIAA	69	F4	VQSTYPGSTYASLNG
22	B3	DGNHGHVAGTIAALNN	70	F3	TYPGSTYASLNGTSM
23	B2	GHGTHVAGTIAALNNS	71	F2	GSTYASLNGTSMATP
24	B1	THVAGTIAALNNSIG	72	F1	YASLNGTSMATPHVA
25	C12	AGTIAALNNSIGVLG	73	G12	LNGTSMATPHVAGAA
26	C11	IAALNNSIGVLGVAP	74	G11	TSMATPHVAGAAALV
27	C10	LNNSIGVLGVAPSAE	75	G10	ATPHVAGAAALVKQK
28	C9	SIGVLGVAPSAELYA	76	G9	HVAGAAALVKQKNPS
29	C8	VLGVAPSAELYAVKV	77	G8	GAAALVKQKNPSWSN
30	C7	VAPSAELYAVKVLGA	78	G7	ALVKQKNPSWSNVQI
31	C6	SAELYAVKVLGASGS	79	G6	KQKNPSWSNVQIRNH
32	C5	LYAVKVLGASGSGSV	80	G5	NPSWSNVQIRNHLKN
33	C4	VKVLGASGSGSVSSI	81	G4	WSNVQIRNHLKNTAT
34	C3	LGASGSGSVSSIAQG	82	G3	VQIRNHLKNTATSLG
35	C2	SGSGSVSSIAQGLEW	83	G2	RNHLKNTATSLGSTN
36	C1	GSVSSIAQGLEWAGN	84	G1	LKNTATSLGSTNLYG
37	D12	SSIAQGLEWAGNNGM	85	H12	TATSLGSTNLYGSGSL
38	D11	AQGLEWAGNNGMHVA	86	H11	SLGSTNLYGSGSLVNA
39	D10	LEWAGNNGMHVANLS	87	H10	STNLYGSGSLVNAEAA
40	D9	AGNNGMHVANLSLGS	88	H9	NLYGSGSLVNAEAATR
41	D8	NGMHVANLSLGSPSP			
42	D7	HVANLSLGSPSPSAT			
43	D6	NLSLGSPSPSATLEQ			
44	D5	LGSPSPSATLEQAVN			
45	D4	PSPSATLEQAVNSAT			
46	D3	SATLEQAVNSATSRG			
47	D2	LEQAVNSATSRGVLV			
48	D1	AVNSATSRGVLVAA			

FIG. 6A

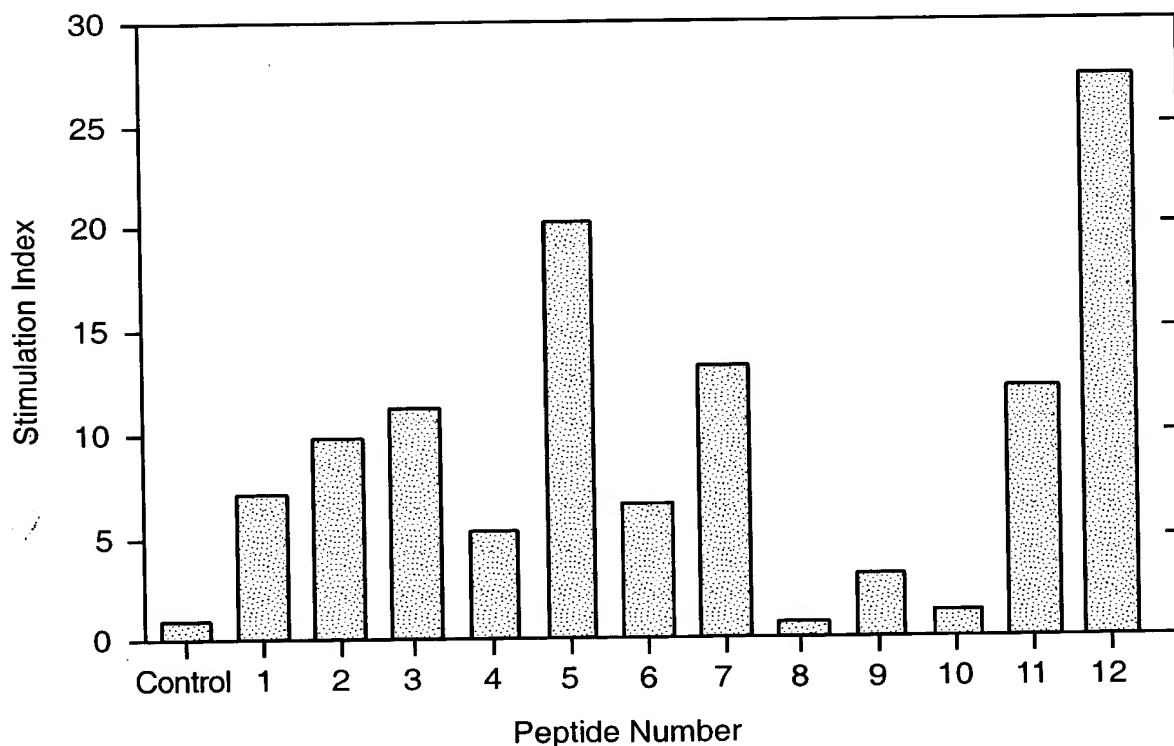
APPROVED: G.C. FIG.  
BY: CLASS: SUBCLASS:  
DRAFTSMAN:

1	A12	IKDFHVFRESRDAG	49	E12	KKIDVLNLSIGGPDF
2	A11	DAELHIFRVFTNNQV	50	E11	DVLNLSIGGPDFMDH
3	A10	PLRRASLSLGSGFWH	51	E10	NLSIGGPDFMDHPFV
4	A9	RASLSLGSGFWHATG	52	E9	IGGPDFMDHPFVDKV
5	A8	LSLGSGFWHATGRHS	53	E8	PDFMDHPFVDKVVWEL
6	A7	GSGFWHATGRHSSRR	54	E7	MDHPFVDKVVWELTAN
7	A6	FWHATGRHSSRLLR	55	E6	PFVDKVVWELTANNVI
8	A5	ATGRHSSRLLRAIP	56	E5	DKVVWELTANNVIMVS
9	A4	RHSSRLLRAIPRQV	57	E4	WELTANNVIMVSAIG
10	A3	SRLLRAIPRQVAQT	58	E3	TANNVIMVSAIGNDG
11	A2	LLRAIPRQVAQTLQA	59	E2	NVIMVSAIGNDGPLY
12	A1	AIPRQVAQTLQADVL	60	E1	MVSAIGNDGPLYGTJ
13	B12	RQVAQTLQADVLWQM	61	F12	AIGNDGPLYGTLNPN
14	B11	AQTLQADVLWQMGYT	62	F11	NDGPLYGTLNPNPADQ
15	B10	LQADVLWQMGYTGAN	63	F10	PLYGTLNPNPADQMDV
16	B9	DVLWQMGYTGANVRV	64	F9	GTLNPNPADQMDVIGV
17	B8	WQMGYTGANVRVAVF	65	F8	NNPADQMDVIGVGGI
18	B7	GYTGANVRVAVFDTG	66	F7	ADQMDVIGVGGIDFE
19	B6	GANVRVAVFDTGLSE	67	F6	MDVIGVGGIDFEDNI
20	B5	VRVAVFDTGLSEKHP	68	F5	IGVGGIDFEDNIARF
21	B4	AVFDTGLSEKHPHFK	69	F4	GGIDFEDNIARFSSR
22	B3	DTGLSEKHPHFKNVK	70	F3	DFEDNIARFSSRGM
23	B2	LSEKHPHFKNVKERT	71	F2	DNIARFSSRGMTTWE
24	B1	KHPHFKNVKERTNWT	72	F1	ARFSSRGMTTWELPG
25	C12	HFKNVKERTNWTNER	73	G12	SSRGMTTWELPGGYG
26	C11	NVKERTNWTNERTLD	74	G11	GMTTWELPGGYGRMK
27	C10	ERTNWTNERTLDDGL	75	G10	TWELPGGYGRMKPDI
28	C9	NWTNERTLDDGLGHG	76	G9	LPGGYGRMKPDIVTY
29	C8	NERTLDDGLGHGTFV	77	G8	GYGRMKPDIVTYGAG
30	C7	TLDDGLGHGTFVAGV	78	G7	RMKPDIVTYGAGVRG
31	C6	DGLGHGTFVAGVIAS	79	G6	PDIVTYGAGVRGSGV
32	C5	GHGTFVAGVIASMRE	80	G5	VTYGAGVRGSGVKGG
33	C4	TFVAGVIASMRECQG	81	G4	GAGVRGSGVKGGCRA
34	C3	AGVIASMRECQGFAP	82	G3	VRGSGVKGGCRALSG
35	C2	IASMRECQGFAPDAE	83	G2	SGVKGGCRALSGTSV
36	C1	MRECQGFAPDAELHI	84	G1	KGGCRALSGTSVASP
37	D12	CQGFAPDAELHIFRV	85	H12	CRALSGTSVASPVVA
38	D11	FAPDAELHIFRVFTN	86	H11	LSGTSVASPVVAGAV
39	D10	DAELHIFRVFTNNQV	87	H10	TSVASPVVAGAVTLL
40	D9	LHIFRVFTNNQVSYT	88	H9	ASPVVAGAVTLLVST
41	D8	FRVFTNNQVSYTSWF	89	H8	VVAGAVTLLVSTVQK
42	D7	FTNNQVSYTSWFLDA	90	H7	GAVTLLVSTVQKREL
43	D6	NQVSYTSWFLDAFNY	91	H6	TLLVSTVQKRELVNP
44	D5	SYTSWFLDAFNYAIL	92	H5	VSTVQKRELVNPASM
45	D4	SWFLDAFNYAILKKI	93	H4	VQKRELVNPASMKQA
46	D3	LDAFNYAILKKIDVL	94	H3	RELVNPASMKQALIA
47	D2	FNYAILKKIDVLNLS	95	H2	VNPASMKQALIASAR
48	D1	AILKKIDVLNLSIGG	96	H1	ASMKQALIASARRLP

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APPROVAL	FIG.
BY	CLASS / SUBCLASS
DRAFTSMAN	

97	I12	IKDFHVYFRESRDAG
98	I11	DAELHIFRVFTNNQV
99	I10	KQALIASARRLPGVN
100	I9	LIASARRLPGVNMFE
101	I8	SARRLPGVNMFEQGH
102	I7	RLPGVNMFEQGHGKL
103	I6	GVNMFEQGHGKLDLL
104	I5	MFEQGHGKLDLLRAY
105	I4	QGHGKLDLLRAYQIL
106	I3	GKLDLLRAYQILNSY
107	I2	DLLRAYQILNSYKPQ
108	I1	RAYQILNSYKPQASL
109	J12	QILNSYKPQASLSPS
110	J11	NSYKPQASLSPSYID
111	J10	KPQASLSPSYIDLTE
112	J9	ASLSPSYIDLTECPY
113	J8	SPSYIDLTECPYMWP
114	J7	YIDLTECPYMWPYCS
115	J6	LTECPYMWPYCSQPI
116	J5	CPYMWPYCSQPIYYG

**FIG.\_6C****FIG.\_10**

APPROVED	FIG.
DRAFTSMAN	CLASS SUBCLASS

MKLVNIWLLLLVLLCGKKHLGDRLEKKSFEKAPCGCSHLTLKVEFSSTVVEYEVIVAFNGYFT  
 AKARNSFISALKSSEVDNWRIPRNNPSSDYPDSFEVIQIKEKQKAGLLTLEDHPNKRVTTPQR  
 KVFRSLKYAESDPTVPCNETRWSQKWQSSRPLRRASLSLGSFWHATGRHSSRRLLRAIPRQVAQ  
 TLQADVLMQGYTGANVRVAVFDTLSEKHPHFKNVKERTNWTNERTLDDGLGHGTFVAGVIASM  
 RECQGFAPDAELHIFRVFTNNQVSYSWFLDAFNAYAILKKIDVLNLSIGGPDFMDHPFVDKVVWEL  
 TANNVIMVSAIGNDGPLYGTLNPNPADQMDVIGVGIDFEDNIARFSSRGMTTWELPGGYGRMKPD  
 IVTYGAGVRGSGVKGCRALSGTSVASPVVAGAVTLLVSTVQKRELVPASMKQALIASARRLP  
 VNMFEQGHGKDLLRAYQILNSYKPKQASLSPSYIDLTECPYMWPCSQPIYYGGMPTVNVNVTILN  
 GMGVTGRIVDKPDWQPYLPQNGDNIEVAFSYSSVLWPWSGYLAISISVTKKAASWEGIAQGHVMI  
 TVASPAETESKNGAEQTSVKLPIKVKIIPTPPRSKRVLWDQYHNLRYPPGYFFPRDNLRMKNDPL  
 DWNGDHIHTNFRDMYQHLRSMGYFVEVLGAPFTCFDASQYGTLLMVDSEEEYFPEEIAKLRRDVD  
 NGLSLVIFSDWYNTSVMRKVIFYDENTRQWMPDGTGGANIPALNELLSVWNMGFSDGLYEGETL  
 ANHDMYASGCSIAKFPEDGVITQTFKDQGLEVLKQETAVVENVPILGLYQIPAEGGGRIVLYG  
 DSNCLDDSHRQKDCFWLLDALLQYTSYGVTPPSLSHSGNRQRPSPGAGSVTPERMENHLHRYSK  
 VLEAHLGDPKPRPLPACPRLSWAKPQPLNETAPSNLWKHKLLSIDLDKVLNFRSNRPQVRPL  
 SPGESGAWDIPGGIMPGRYNQEVGQTI PVFAFLGAMVVLAFVQINKAKSRPKRRKPRVKRPQL  
 MQQVHPKTPSV

FIG.-7

ADDY	CLASS	SUBCLASS
BY		
DRAFTSMAN		

BPN: A Q S V P Y G V S Q - I K A P A L H S Q G Y T G S N V K V A V I D S G I D S S H P D L K - V A G G A 48  
 SAVINASE A Q S V P W G I S R - V Q A P A A H N R G L T G S G V K V A V L D T G I - S T H P D L N - I R G G A 47  
 S2HSBT - R A I P R Q V A Q T L Q A D V L W Q M G Y T G A N V R V A V F D T G L S E K H P H F K N V K E R T 49

SMVPSETNPFQDDNNSHGHGTHVAGTVAALNNSIGVLGVAPSA  
SASLYAVKVLGA 98  
BPN'  
SFPVGPST-QDGNHGHGTHVAGTIAALNNSIGVLGVAPSAEL  
YAVKVLGA 96  
SAVINASE  
NW--TNERTLDDGLGHGTFVAGVIASMRCCQGF--APDAEL  
HIFRVFTN 94  
S2HSBT

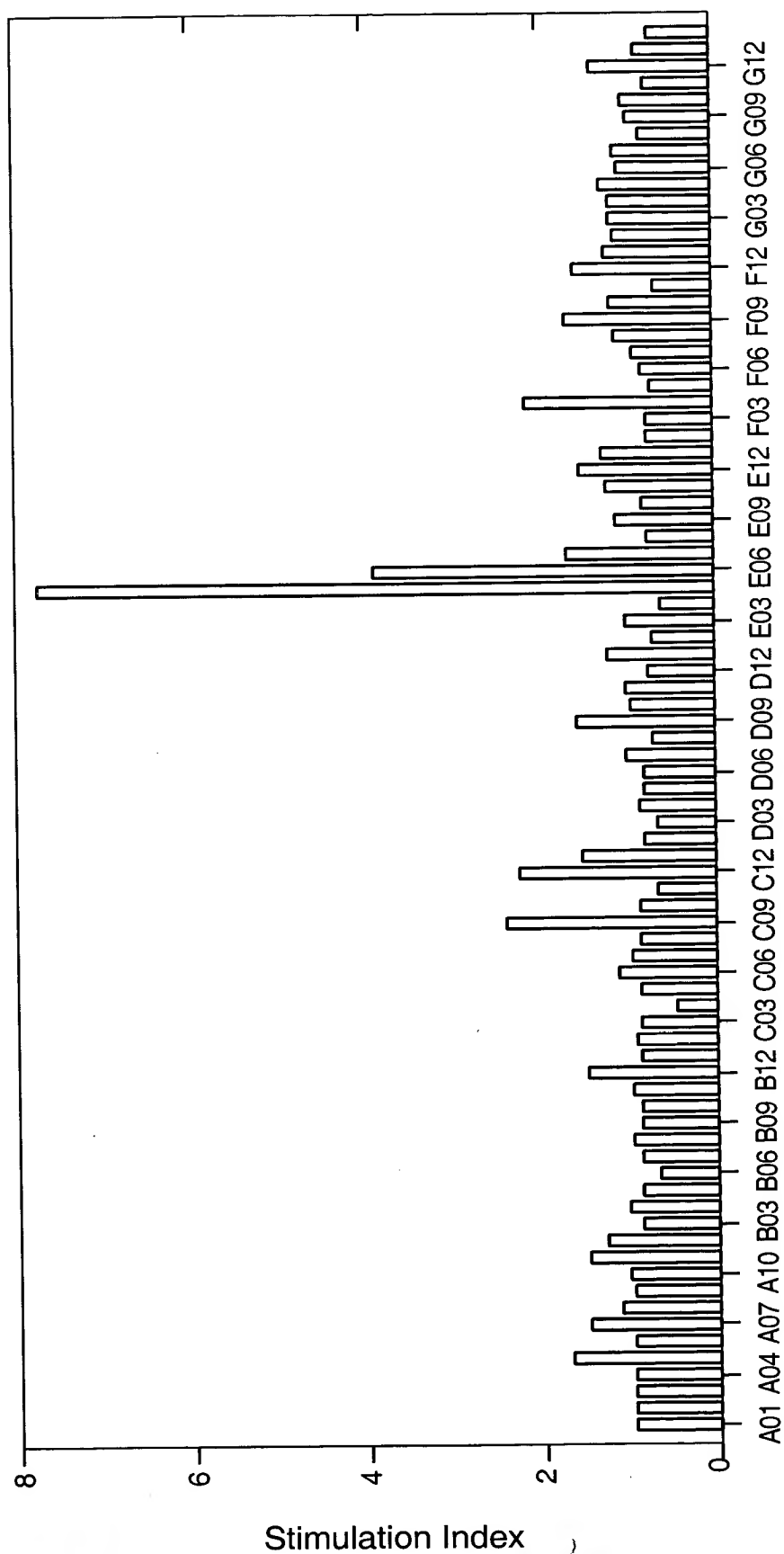
BPN' D G S G Q Y S W I I N G I E W A I A N N M D V I N M S L G G P S - G S A A L K A A V D K A V A S G V 147  
 SAVINASE S G S G S V S S I A Q G L E W A G N N G M H V A N L S L G S P S - P S A T L E Q A V N S A T S R G V 145  
 S2HSBT N Q V S Y T S W F L D A F N Y A I L K K I D V L N L S I G G P D F M D H P F V D K V W E L T A N N V 144

	100	197
BPN'	VVAAAGNEGTS	VVAAAGNEGTS
SAVINASE	LVVAAAGNSGA	LVVAAAGNSGA
S2HSBT	IMVSAIGNDGP	IMVSAIGNDGP

	210	220	230
BPN'	-----	DVMA PGVSIQSTLPGNKYGAYNGTSMASPHVAGAAALIL	235
SAVINASE	-----	DIVAPGVNVQSTYPGSTYASLNGTSMATPHVAGAAALVK	229
S2HSBT	ELPGGYGRMKPDIVTYGAGVRGSGVKGGCRALSGTSVASPVVAGAVTLV		242

BPN'	SKHPNWTNTQ---	VRSSLENTT	TKLGDSFY	YGKGLINV	QAAQ	275
SAVINASE	QKNPSWSNVQ---	IRNHLLKNTA	TSLGSTNL	YGSGLVNAE	AATR	269
S2HSBT	STVQKRRELVNP	PASMKQALIAS	ARRLPGVNM	FEG----	HGKL	280

APPROVED	FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS



Well Position

**FIG.\_9**



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